

CLAIMS

1. Use of a combination of inorganic fillers as additive in thermoplastic polymer compositions in order to improve the degree of mattness thereof, characterized in that the combination comprises at least two inorganic fillers chosen from zinc sulphide, titanium dioxide, barium sulphate, silica, alumina, kaolin, calcium carbonate, calcium sulphate and mattifying clays.
 2. Use according to Claim 1, characterized in that the combination comprises at least two inorganic fillers chosen from zinc sulphide, titanium dioxide, barium sulphate and silica.
 3. Use according to either one of the preceding claims, characterized in that the combination comprises two inorganic fillers.
 4. Use according to any one of the preceding claims, characterized in that the combination of inorganic fillers is chosen from the combinations comprising zinc sulphide and titanium dioxide, zinc sulphide and barium sulphate or zinc sulphide and silica and those comprising titanium dioxide and silica.
 5. Use according to any one of the preceding claims, in which the combination of inorganic fillers comprises titanium dioxide and zinc sulphide.
 6. Use according to any one of the preceding claims, in which the proportion by weight of the combination of inorganic fillers with respect to the total weight of the polymer composition is greater than 1.5%, preferably greater than or equal to 2%, more preferably greater than or equal to 2.5%, by weight.
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7. Use according to any one of the preceding claims,
in which the proportion by weight of the combina-
tion of inorganic fillers with respect to the
total weight of the polymer composition is less
5 than 10%, preferably less than 7%, advantageously
less than 4%, by weight.
8. Use according to any one of the preceding claims,
in which the inorganic fillers are present in
10 binary combinations in proportions by weight
varying from 1:99 to 99:1, preferably from 20:80
to 80:20, in particular from 40:60 to 60:40, more
specifically in proportions by weight of the order
of 50:50.
- 15 9. Use according to any one of the preceding claims,
in which the thermoplastic polymer composing the
thermoplastic matrix of the polymer composition is
chosen from polylactones, polyurethanes, poly-
20 carbonates, polysulphones, polyethers, poly-
ketones, polyamides, polyesters, poly(arylene
oxide)s, poly(arylene sulphide)s, polyetherimides,
vinyl polymers and their copolymers, ethylene-
vinyl acetate copolymers, acrylic polymers and
25 copolymers, polyacrylates and their copolymers,
polyolefins, ionomers, poly(epichlorohydrin)s,
poly(urethane)s, polysulphones, furan resins,
cellulose ester plastics, silicones and blends of
at least two of the above polymers.
- 30 10. Use according to any one of the preceding claims,
in which the thermoplastic polymer composing the
thermoplastic matrix of the polymer composition is
based on polyamide.
- 35 11. Use according to any one of the preceding claims,
in which the thermoplastic polymer composing the
thermoplastic matrix of the polymer composition is
a polyamide chosen from polyamide 6,
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polyamide 6,6, polyamide 11, polyamide 12, polyamide 4, polyamides 4,6, 6,10, 6,12, 6,36 and 12,12, and semiaromatic polyamides obtained from terephthalic and/or isophthalic acid.

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12. Thermoplastic polymer composition comprising more than 0.5% by weight, preferably more than 1% by weight, more preferably more than 1.5% by weight, of a combination of inorganic fillers, characterized in that the combination comprises at least
10 two inorganic fillers chosen from zinc sulphide, titanium dioxide, silica, alumina, kaolin, calcium carbonate, calcium sulphate and mattifying clays, with the exception of the polymer compositions
15 with a polyester matrix comprising a binary combination of titanium dioxide and of zinc sulphide.
13. Composition according to Claim 12, characterized
20 in that it comprises a combination of inorganic fillers chosen from ZnS/TiO_2 , ZnS/SiO_2 , $\text{ZnS/SiO}_2/\text{TiO}_2$ and $\text{TiO}_2/\text{SiO}_2$, with the exception of the polymer compositions with a polyester matrix comprising a binary combination of titanium
25 dioxide and of zinc sulphide.
14. Article obtained from one or more compositions according to Claim 12 or Claim 13.
- 30 15. Article according to Claim 14, in the form of yarns, fibres or filaments.
16. Flocked surface of high mattness comprising one or more articles as defined in either one of
35 Claims 14 and 15.
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